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DOCUMENT-IDENTIFIER: US [20050140369](#) A1

TITLE: RF transmitter arrangement for an MR system, and method for determining a setting parameter therefor

[Pre-Grant Publication \(PGPub\) Document Number:](#)[20050140369](#)[Summary of Invention Paragraph:](#)

[0007] An example of a combined RF transmission-reception antenna is what is known as a bandpass birdcage resonator as described in German OS 187 02 256. This has sub-antennas (individual rods) with couplings among one another being partially cancelled by suitable technical measures (overlapping, mutual capacitors, transformers). Variable passive power distribution networks and/or a number of separately activatable radio frequency power amplifiers can be used for the optimization of the radiated B1 field with regard to, for example, homogeneity and power loss. The sub-antennas in the prior art are typically used as location-dependent transmitters.

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